

1 CLAIMS

2 Having thus described our invention, what we claim as new
3 and desire to secure by Letters Patent is as follows:

4 1. A method for distributing at least one application in a
5 communication network, said method comprising the steps of:

6 redirecting to one server of a plurality of proxy
7 servers at least one service request received from a
8 client for said at least one application;

9 determining a set of programs required at said one
10 server to fulfil said request for said at least one
11 application; and

12 executing said set of programs.

13 2. A method as recited in claim 1, further comprising
14 examining a cache of programs to obtain the set of programs;

15 3. A method as recited in claim 2, wherein said cache is
16 located at another server of said plurality of proxy
17 servers.

18 4. A method as recited in claim 2, further comprising
19 returning the results of the step of executing to the
20 client.

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1 5. A method as recited in claim 1, further comprising
2 forwarding a portion of the request that needs to be
3 satisfied at another server to said another server.

4 6. A method as recited in claim 5, wherein said another
5 server is a backend server.

6 7. A program storage device readable by machine, tangibly
7 embodying a program of instructions executable by the
8 machine to perform method steps for distributing at least
9 one application in a communication network, said method
10 comprising the steps of claim 1.

11 8. A method as recited in claim 1, wherein the step of
12 executing includes:

13 obtaining parameters for execution from a backend
14 server; and

15 writing any resulting logging and error messages to
16 said backend server.

17 9. A method as recited in claim 1, where the step of
18 determining includes parsing the request to determine the
19 program required to satisfy the request.

20 10. A method as recited in claim 9, further comprising:

21 retrieving a proxylet-record for said program; and

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1 looking up a field of said proxylet-record for
2 determining the set of programs to be executed at
3 the proxy server;

4 11. A method as recited in claim 2, where the step of
5 examining includes:

6 employing a local store in determining a first set
7 of programs present at the first proxy server; and

8 downloading a second set of programs from another
9 server for said second set of programs not present
10 at said proxy.

11 12. A method as recited in claim 1, where the step of
12 redirecting is based upon a-priori knowledge of location of
13 said set of programs.

14 13. A method as recited in claim 12, wherein said a-priori
15 knowledge is deployed at a domain name server.

16 14. A method as recited in claim 12, wherein said a-priori
17 knowledge is deployed at a backend server.

18 15. An apparatus to accelerate a distributed application
19 within a network, the apparatus comprising:

20 a wide area load balancer for distributing at
21 least one request from at least one client to a
22 particular proxy server from among a plurality of
23 proxy servers;

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1 an application distributor for distributing a set
2 of programs used for said distributed application
3 to at least said particular proxy server necessary
4 to satisfy said at least one request;

5 a information-management recorder for recording
6 connectivity information about the set of
7 programs; and

8 an execution device for executing said set of
9 programs satisfying said at least one request at
10 said particular proxy server.

11 16. An apparatus as recited in claim 15, further comprising
12 a request forwarder for forwarding to another server any
13 portions of said at least one request which have to be
14 executed at said another server.

15 17. An apparatus for distributing at least one application
16 in a communication network, comprising:

17 a proxy server having:

18 a set of programs used in said at least one
19 application, said set of programs retrieved from a
20 back-end server and executed locally to satisfy
21 part of at least one request received from a
22 client;

23 a set of cached data associated with said set of
24 programs;

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- 1 a set of information-management records for said
2 set of programs; and
- 3 a Cache Manager for maintaining the set of
4 programs, the set of cached data and the set of
5 information-management records in distribution of
6 said at least one application.
- 7 18. An apparatus for distributing at least one application
8 in a communication network, said apparatus comprising a
9 backend server having:
- 10 a first set of programs used for said at least one
11 application that, said set of programs being
12 distributed to at least one server of a plurality
13 of proxy servers within the network;
- 14 a second set of programs used for said at least
15 one application, said set of programs being
16 executed locally by the backend server;
- 17 a third set of programs used for said at least one
18 application, said third set of programs to receive
19 logging and error messages from the execution of
20 said first set of programs; and
- 21 an accessing server to provide access to the first
22 set of programs by any of the proxy servers.
- 23 19. An apparatus as described in claim 18, further
24 comprising a request redirector for redirecting requests to
25 one of the plurality of proxy servers.

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1 20. An article of manufacture comprising a computer usable
2 medium having computer readable program code means embodied
3 therein for causing application distribution in a network
4 with a plurality of machines, the computer readable program
5 code means in said article of manufacture comprising
6 computer readable program code means for causing a computer
7 to effect the steps of claim 1.

8 21. A method for distributing at least one application,
9 said method comprising:

10 redirecting one client for said at least one
11 application, to a first proxy server from a
12 plurality of proxy servers;

13 evaluating a request for said at least one
14 application to determine a part that is executable
15 at the first proxy server; and

16 executing said part at said proxy server.

17 22. A method as recited in claim 21, further comprising
18 obtaining at least one program used by said at least one
19 application enabling said step of executing.

20 23. A method as recited in claim 22, further comprising
21 determining a location of said at least one program.

22 24. A method as recited in claim 22, further comprising
23 obtaining values of parameters specific to said request

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1 25. A method as recited on claim 24, wherein the step of
2 executing includes:

3 performing at least one operation to satisfy said
4 request; and

5 writing any resulting logging messages to a
6 backend server.

7 26. A method as recited in claim 25, wherein said backend
8 server is managing said at least one program.

9 27. A method as recited in claim 23, wherein said location
10 is the location of a second proxy server.

11 28. A method as recited in claim 23, wherein the step of
12 determining includes:

13
14 obtaining a proxylet-record for said request; and

15
16 looking up at least one field in the
17 proxylet-record.

18 29. A method as recited in claim 24, wherein the step of
19 obtaining includes:

20
21 obtaining a proxylet-record for said request; and

22 looking up at least one field in the
23 proxylet-record.

1 30. A method as recited in claim 21, further comprising
2 redirecting a second request from said first client to a
3 second proxy server.

4 31. A method as recited in claim 21, further comprising
5 redirecting a second request received from a second client
6 to said first proxy server.

7 32. A method as recited in claim 21, further comprising
8 redirecting a second request received from a second client
9 to a second proxy server.

10 33. An article of manufacture comprising a computer usable
11 medium having computer readable program code means embodied
12 therein for causing application distribution in a network
13 with a plurality of machines, the computer readable program
14 code means in said article of manufacture comprising
15 computer readable program code means for causing a computer
16 to effect the steps of claim 21.

17 34. A program storage device readable by machine, tangibly
18 embodying a program of instructions executable by the
19 machine to perform method steps for distributing at least
20 one application in a communication network, said method
21 comprising the steps of claim 21.

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